

Pipe bridges investigations about more than 5 kilometer length

Initial Position

AURUBIS AG is running four factories nearby Hamburg which are connected by several kilo-meters long media lines. Therefore numerous pipe bridges are necessary to bridge streets, places as well as river arms between the areas. That makes all together pipe bridges with a total length of about 5 km.



AURUBIS has started in 2014 to register these pipe bridges and is planning periodical bridge investigations in future. Therefore the required bridge books had to be generated in 2014. The focuses in documentation had been thereby the following test criterias:

- cleanness
- occupational health and safety
- seeming defects of the construction



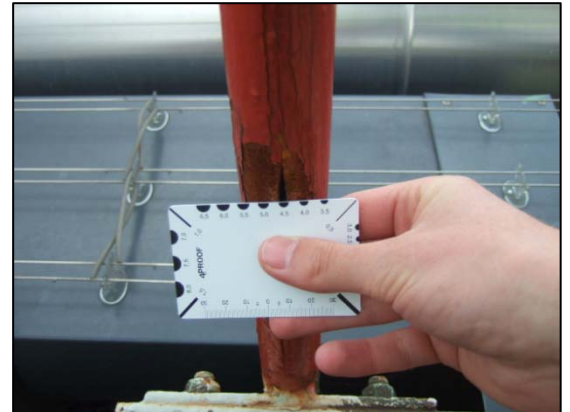
Solution

The approximately 5 km of pipe bridges were split-ted into about 150 sections and labeled. These sections were furthermore related to

- Factory North,
- Factory South,
- Factory East and
- Factory Elbe

and registered in 4 bridge books each with one data sheet for one section.

The test criterias “cleanness” and “occupational health and safety” were classified into yes / partially / no. The test criteria “seeming defects of the con-struction” were categorized into rust / gap / indentation / crack. Furthermore the depth of rust, the gap width, the depth of indentation and the width of crack were registered in millimeters res-pectively in centimeters.



Finally procedures were determined to the three test criterias and periods for the realization were fixed.

Based on the data sheets a management report in terms of a traffic light report (red / yellow / green) has been developed as a summary report.

Are you interested

Telefon: (05 11) 27 04 20-0
Telefax: (05 11) 27 04 20-29
info@contelos-engineering.de

Contelos
Engineering GmbH
Engelbosteler Damm 5
30167 Hannover
Germany